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MANGOTSFIELD

URBAN DISTRICT COUNCIL

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR

1945.

M A N G O T S F I E L D U R B A N D I S T R I C T

Comprising:

DOWNEND, SOUNDWELL & MANGOTSFIELD WARDS.

Chairman of the Council, 1945:-

Mr. J.R. Bizley.

Vice-Chairman:-

Mr. W. Hughes.

Members:-

Mr. L. Andrews.
Mr. A. Beazer.
Mr. H.C. Bracey.
Mr. S. Churchill.
Mr. G.G. England.
Mr. W. Hathway.
Mr. F. Monks.
Mr. L.G. Palmer.
Mr. W.H. Rolls.
Mr. J. Sheppard.
Mr. S.T. Smart.
Mr. B.J. Woodhall.
Mr. H.F. Wren, J.P., C.C.

Clerk to the Council:-

Mr. F.E. Wallace.

Public Health Staff:-

Medical Officer of Health, who is Medical Officer of Health to the South Gloucestershire Combined (M.O.H) Districts.	- James Menzies Cormack, M.B., Ch.B., D.P.H. (Appointed 1st May, 1938).
Sanitary Inspector and Surveyor.	- F. Alan Long, M.I.M.& Cy.E., M.S.I.A., Cert.R.S.I. (Appointed 1st December, 1929).
Clerk to the Health Department and Surveyor.	- D. S. Cross. (Appointed 20th February, 1939).

S T A T I S T I C S 1 9 4 5

(a) General Statistics:

Area of District	1,553 Acres
Population (Registrar-General's) estimate mid-1945)	15,770
No. of inhabited houses December (Rate books)	4,700
Estimated No. void houses December	Nil
Rateable Value	£70,188
Sum represented by 1d. rate	£292

(b) Extracts from vital statistics:

		Total	M.	F.	
Live Births	- Legitimate	267	147	120	Birth-rate (per 1,000 estimated resident population mid-1945) - 18.3
	- Illegitimate	21	11	10	
					Birth-rate for England and Wales - 16.1
Stillbirths	- Legitimate	12	6	6	Rate (per 1,000 estimated resident population mid-1945) - 0.76
	- Illegitimate	-	-	-	
					Rate per 1,000 for England and Wales - 0.46
Deaths	-	174	88	86	Death-rate (per 1,000 estimated resident population mid-1945) - 11.0
					Rate per 1,000 for England and Wales - 11.4
					Rate per 1,000 for 1939 (Mangotsfield) - 11.6

Deaths from Puerperal Causes - Nil

Deaths from Cancer (all ages) - 24

Deaths from Measles (all ages) - Nil

Deaths from Whooping Cough (all ages) - Nil

Deaths from Diarrhoea (under 2 years) - 2

TABLE SHOWING PRINCIPAL CAUSES OF DEATH 1945

Causes of Death	Under 1 yr.	1-	5-	15-	25-	45-	65-	75 and Upwards	Total
1. Typhoid and paratyphoid fevers	-	-	-	-	-	-	-	-	-
2. Cerebro-spinal fever..	-	-	-	-	-	-	-	-	-
3. Scarlet fever.	-	-	-	-	-	-	-	-	-
4. Whooping cough	-	-	-	-	-	-	-	-	-
5. Diphtheria	-	-	-	-	-	-	-	-	-
6. Tuberculosis of Respiratory System	-	-	-	3	-	1	1	-	5
7. Other forms of tuberculosis...	1	-	-	1	-	-	-	-	2
8. Syphilitic disease	-	-	-	-	1	-	-	-	1
9. Influenza	-	-	-	-	1	2	-	-	3
10. Measles	-	-	-	-	-	-	-	-	-
11. Acute Poliomyelitis and Polioencephalitis	-	-	-	-	-	-	-	-	-
12. Acute infectious encephalitis.	-	-	-	-	-	-	-	-	-
13M. Cancer of buccal cavity and oesophagus (males only)...	-	-	-	-	-	-	-	-	-
13F. Cancer of uterus	-	-	-	-	-	1	-	-	1
14. Cancer of stomach and duodenum	-	-	-	-	-	1	1	2	4
15. Cancer of breast	-	-	-	-	2	2	-	1	5
16. Cancer of all other sites	-	-	-	-	2	5	6	1	14
17. Diabetes	-	-	-	-	-	-	2	-	2
18. Intra-cranial vascular lesions	-	-	-	-	1	7	5	9	22
19. Heart disease.	-	-	-	-	4	13	21	22	60
20. Other diseases of the circulatory system	-	-	-	-	-	-	-	1	1
21. Bronchitis	-	-	-	-	-	3	3	4	10
22. Pneumonia	-	-	1	-	-	-	1	1	3
23. Other respiratory diseases	-	-	-	-	-	-	-	1	1
24. Ulceration of the stomach or duodenum.	-	-	-	-	-	1	1	-	2
25. Diarrhoea (under 2 years of age)	2	-	-	-	-	-	-	-	2
26. Appendicitis..	-	-	1	-	-	-	-	-	1
27. Other digestive diseases	-	-	-	-	-	1	2	-	3
28. Nephritis	-	-	1	-	1	-	1	2	5
29. Puerperal and post-abortive sepsis	-	-	-	-	-	-	-	-	-
30. Other maternal causes.	-	-	-	-	1	-	-	-	1
31. Premature birth	2	-	-	-	-	-	-	-	2
32. Congenital malformations, birth injury, infantile dis.	3	-	2	-	-	-	-	-	5
33. Suicide	-	-	-	-	-	-	-	-	-
34. Road traffic accidents	-	-	1	-	-	1	-	-	2
35. Other violent causes..	-	-	-	-	1	1	-	2	4
36. All other causes	-	-	-	-	2	2	4	5	13
TOTAL all causes	8	-	6	4	16	41	48	51	174

TABLE SHOWING INCIDENCE OF INFECTIOUS DISEASES IN AGE GROUPS 1945

Disease.	Under 1 yr.	1-	2-	3-	4-	5-	10-	15-	20-	35-	45-	65 and over	Total
Scarlet Fever	-	-	2	-	-	8	-	1	1	-	-	-	12
Diphtheria	-	-	-	-	-	2	-	2	1	1	-	-	6
Measles..	1	4	4	5	10	18	2	-	-	-	-	-	44
Erysipelas	-	-	-	-	-	-	-	-	2	-	-	-	2
Puerperal Pyrexia ...	-	-	-	-	-	-	-	-	1	1	-	-	2
Dysentery	-	1	-	-	-	-	-	-	-	-	-	-	1
Whooping Cough... ...	1	1	-	1	-	-	-	-	-	-	-	-	3
Pneumonia	-	1	-	-	2	-	-	1	-	1	3	1	9
TOTALS.	2	7	6	6	12	28	2	4	5	3	3	1	79

TABLE SHOWING NEW CASES AND DEATHS (TUBERCULOSIS)
IN AGE GROUPS, ETC. 1945

Age	NEW CASES				DEATHS			
	Respiratory		Non-Respiratory		Respiratory		Non-Respiratory	
	M	F	M	F	M	F	M	F
Under 1 year	-	-	-	-	-	-	1	-
1-	-	-	-	-	-	-	-	-
5-	-	-	1	-	-	-	-	-
15-	4	4	-	1	-	3	-	1
25-	1	-	-	-	-	-	-	-
35-	2	2	-	-	-	-	-	-
45-	-	-	-	-	-	-	-	-
55-	-	-	-	-	1	-	-	-
65 and upwards	-	-	-	-	1	-	-	-
TOTALS	7	6	1	1	2	3	1	1

SANITARY CIRCUMSTANCES OF THE AREA

1. (i) Water supply as for 1939.
   (ii) Drainage and Sewerage - 2 new houses were connected to the sewers.

2. Rivers and streams - No special action was necessary during the year.

3. (i) Closet accommodation - Water carriage system is general throughout the district, there being only a few exceptions in outlying positions.

   (ii) The whole district is covered by weekly house refuse collection, and in addition a regular salvage scheme is in operation.

   (iii) Sanitary Inspection of the area.

(a)	Inspections made	46
(b)	Nuisances discovered or reported	16
(c)	" " " " (swine only)	Nil
(d)	Complaints received	24
(e)	Informal notices sent	15
(f)	Statutory notices sent	2
(g)	Summonses issued	Nil
(h)	Convictions obtained	Nil
(i)	Number of houses disinfected	15
(j)	Method of disinfection used	Zaldecide

Premises or Occupations subject to Statutory Control.

(a)	Factories.	No.inspected-----16 No.of inspections16
	Action taken under Factories Act,1937--	
(b)	Factories (Non-Mechanical Power).	No.inspected------8 No.of inspections-8 Action taken------1
(c)	Bakehouses.	No.inspected------8 No.of inspections-8 Action taken------1
(d)	Offensive Trades.	No.inspected----Nil No.of inspections-- Action taken----Nil
(e)	Outworkers residences.	No.inspected----Nil No.of inspections-- Action taken----Nil
(f)	Canal Boats.	No.inspected----Nil No.of inspections-- Action taken----Nil
(g)	Dairies, cowsheds, Milkshops.	No.inspected-----12 No.of inspections13 Action taken------2
(h)	Slaughter houses.	No.inspected------1 No.of inspections-5 Action taken----Nil

   (iv) Shops and Offices.- No action was taken under the Shops Act, 1934, nor the Public Health Act, 1936. No new shops were constructed during the year.

   (v) Dumping Sites. Nil

   (vi) Smoke Abatement. Observations made-[illegible]
   Complaints rec'd.-[illegible]
   Notices served and nuisances abated--[illegible]

   (vii) Swimming Baths and Pools - There are no swimming baths in the district.

(viii) Eradication of Bed Bugs.

No.of Council houses found to be infected---1
No.of Council houses disinfected----------1
No.of other houses found to be infected---
No.of other houses disinfected----------2

The disinfecting carried out by the use of a substance called "Zaldecide" which is expressly prepared for this purpose.

In spection has been made and treatment given where necessary to ensure that the belongings of tenants are free from vermin before removal to Council houses. General advice is given and insecticides supplied to prevent re-infestation.

The work of disinfecting is carried out by the Council.

SCABIES ORDER, 1941.

Arrangements have been established in co-operation with Bristol City for persons suffering from Scabies or lice infestations to be treated at Bristol Clinics.

Children infested to such a degree as to require indoor treatment are admitted to the Sick Bay at Chipping Sodbury, which is under the control of the Medical Officer of Health in his capacity as Medical Officer of Health for Sodbury Rural District Council. These facilities have been found adequate and successful.

WATER SUPPLY.

Water is supplied in this area by the West Gloucestershire Water Company, which is a private company. The supply has been satisfactory both in quality and quantity. No cases of contamination have been reported or found.

Following are copies of analyses.

COPY.

WEST GLOUCESTERSHIRE WATER COMPANY.

KINGSWOOD. BRISTOL. 17/5/46.

Analysis.

The places and frequency of sampling are the same as before, as set out in my letter of 24th August 1944. Analysis of output water from Shipton Moyne, Frampton Cotterell and California are attached.

The following is a summary of output water samples taken in 1944 and 1945: those figures relate to the whole of the Company's area, not to Kingswood U.D. only.

Sample.	1944		1945	
	Number of samples taken.	Number containing B.Coli.	Number of samples taken.	Number containing B.Coli.
Shipton Moyne.	26	-	25	-
Frampton.	24	-	36	1
California.	3	-	4	-
Bulk supply.	-	-	1	1
Reservoirs.	27	5	24	1
Consumer's taps	-	-	25	8 *
	80	5	115	11

* all in one area.

Rainfall recorded at Hopewell Hill, Kingswood.

	1944	1945	37 year average.
January	2.16	1.87	3.10
February	0.73	2.96	2.25
March	0.34	1.06	2.11
April	2.33	0.96	2.02
May	0.90	2.56	2.17
June	2.68	3.53	2.72
July	2.28	1.81	2.92
August	3.42	2.47	2.98
September	3.55	2.45	2.47
October	4.56	4.20	3.55
November	5.23	0.34	3.07
December	2.10	4.75	3.57
TOTAL.	30.28	28.96	32.48
Rain days.	167	161	165.5

In 1944 there were 3 droughts of 10 days or more, but weather was not exceptional.

In 1945 there were 5 droughts of 10 days or more: November was the driest in 39 years and December the wettest since 1934.

Annual rainfall was below normal from September 1943 to February 1945, above normal from March to September 1945 and below normal from October to the end of 1945. The calendar years 1941, 2, 3, 4 and 1945 have all been below average.

COPY.

THE WEST GLOUCESTERSHIRE WATER COMPANY. S.S.80

KINGSWOOD. BRISTOL.

Analysis of sample of Shipton Moyne chlorinated water taken on 14th January 1946.

Appearance Clear and bright.

Colour. Normal. Odour Nil.

Reaction, pH On the alkaline side of neutrality: 7.8. Acidity as CO_2 0.6

Electric conductivity at 20°C 610 Alkalinity as C^a CO_3 24.5

Results expressed in parts per 100,000.

Ca.	Mg.	Na.	CO_3	SO_4	Cl.	NO_3	SiO_2	Probable Combinations.	
7.8	0.9		14.7	4.6	4.6	A	1.0		
7.8			11.7					Calcium Carbonate	19.5
	0.9		2.2					Magnesium Carbonate	3.1
		0.6	0.8					Sodium Carbonate	1.4
		2.2		4.6				Sodium Sulphate	6.8
		3.0			4.6			Sodium Chloride	7.6
							1.0	Silica	1.0
								Difference.	1.1
Total solid constituents dried at 180°C.									40.5

Hardness-Total 23.0 Temporary 22.5 Permanent 0.5

Free Ammonia 0.0100 = Ammoniacal Nitrogen 0.0080

Albuminoid Ammonia 0.0000 = Albuminoid Nitrogen 0.0000

Oxygen absorbed in 4 hours at 80°F 0.0000

Nitrogen in Nitrates 0.00 Nitrogen in nitrites Less than 0.001

Metals Iron: 0.015 Other metals absent.

NOTE: To convert the above parts per 100,000 into grains per gallon multioly by 0.7

'Free chlorine reaction' 0.2 part per million.

BACTERIOLOGICAL RESULTS.

No. of Colonies per c.c. or ml. On Agar at 37°C in : 1 day	1		
2 days	2		
On Agar at 20°C in : 3 days	1		
Presumptive Coliform Reaction: Bact. Coli	Present	-	Absent 100 c.c
Cl. welchii	Present	-	Absent 100 c.c
	Present	-	Absent 100 c.c

Signed: Gordon Miles B.Sc., F.R.I.C.

COPY.

THE WEST GLOUCESTERSHIRE WATER COMPANY. S.S.80.

KINGSWOOD, BRISTOL.

Analysis of sample of Frampton Cotterell Pumping Station output water taken on 14th. January 1946.

Appearance Clear and bright.

Colour Normal. Odour Nil.

Reaction pH. On the alkaline side. of neutrality: 7.8 Acidity as CO_2 0.7

Electric conductivity at 20°C 650. Alkalinity as Ca CO_3 29.0

Results expressed in parts per 100,000.

Ca.	Mg.	Na.	CO_3	SO_4	Cl.	NO_3	SiO_2	Probable Combinations.	
5.8	2.2		17.4	6.3	2.7	A	1.1		
5.8			8.7					Calcium Carbonate	14.5
	2.2		5.4					Magnesium Carbonate	7.6
		2.5	3.3					Sodium Carbonate	5.8
		3.0		6.3				Sodium Sulphate	9.3
		1.7			2.7			Sodium Chloride	4.4
							1.1	Silica	1.1
								Difference	0.8
								Total solid constituents dried at 180°C	43.5

Hardness - Total 23.5 Temporary 23.5 Permanent 0.0

Free Ammonia 0.0048 = Ammoniacal Nitrogen 0.0040

Albuminoid Ammonia 0.0000 = Albuminoid Nitrogen 0.0000

Oxygen absorbed in 4 hours at 80°F 0.010

Nitrogen in Nitrates 0.00 Nitrogen in Nitrites Less than 0.001

Metals Iron 0.003 Other metals Absent.

NOTE: To convert the above parts per 100,000 into grains per gallon multiply by 0.7

"Free chlorine reaction" 0.2 part per million.

BACTERIOLOGICAL RESULTS.

No. of Colonies per c.c. or ml. On Agar at 37°C in : 1 day.	0	
2 days.	1	
On Agar at 20°C in : 3 days.	1	
Presumptive Coliform Reaction.	Present	- Absent 100 c.c.
Bact. Coli.	Present	- Absent 100 c.c.
Cl. welchii	Present	- Absent 100 c.c.

Signed: Gordon Miles B.Sc. F.R.I.C.

COPY.

THE WEST GLOUCESTERSHIRE WATER COMPANY. S.S. 80

KINGSWOOD, BRISTOL.

Analysis of sample of California Pumping Station Output Filtered, Chlorinated and Softened water. taken on January 21st. 1946.

Appearance. Clear and bright.

Colour Normal. Odour Nil.

Reaction pH Neutral: 7.3 Acidity as CO_2 2.5

Electric conductivity at 20°C 950. Alkalinity as Ca CO_3 34.5

Results expressed in parts per 100,000.

Ca.	Mg.	Na.	CO_3	SO_4	Cl.	NO_3	SiO_2	Probable Combination.	
7.1	1.5		20.7	13.0	6.5	0.8	1.0		
7.1			10.6					Calcium Carbonate	17.7
	1.5		3.7					Magnesium Carbonate	5.2
		4.9	6.4					Sodium Carbonate	11.3
		6.2		13.0				Sodium Sulphate	19.2
		4.2			6.5			Sodium Chloride	10.7
		0.3				0.8		Sodium Nitrate	1.1
							1.0	Silica	1.0
								Difference	0.3
Total solid constituents dried at 180°C									66.5

Hardness - Total 24.0 Temporary 24.0 Permanent 0.0

Free Ammonia 0.0072 = Ammoniacal Nitrogen -

Albuminoid Ammonia 0.0000 = Albuminoid Nitrogen -

Oxygen absorbed in 4 hours at 80°F 0.0000

Nitrogen in Nitrates 0.18 Nitrogen in Nitrites Absent.

Metals Absent.

NOTE: To convert the above parts per 100,000 into grains per gallon multiply by 0.7

"Free chlorine reaction" 0.05 part per million.

BACTERIOLOGICAL RESULTS.

No. of Colonies per c.c. or ml. On Agar at 37°C in : 1 day	0
2 days	0
On Agar at 20°C in : 3 days	0
Presumptive Coliform Reaction	Present - Absent 100 c.c.
Bact. Coli.	Present - Absent 100 c.c.
Cl. welchii	Present - Absent 100 c.c.

Signed: Gordon Miles B.Sc., F.R.I.C.

Domestic.

Return of Supplies by Parishes for the year 1944-1945.

PARISH.	31st Dec. 1943.	31st Dec. 1944.	31st Dec. 1945.
County of Gloucester			
Sodbury R.D.			
Acton Turville	68	68	68
Alderley			
Chipping Sodbury	295	297	297
Dodington	26	27	31
Doynton	55	56	59
Dyrham & Hinton			
Filton	2,981	2,993	2,995
Frampton Cotterell	534	539	547
Great Badminton	97	97	97
Hawkesbury	41	41	41
Horton	2	2	2
Iron Action	138	139	143
Little Sodbury	4	4	6
Marshfield	231	238	247
Old Sodbury	262	264	264
Pucklechurch	166	167	167
Stoke Gifford	234	230	253
Tormarton	45	45	46
Westerleigh	381	380	384
West Littleton			
Wick & Abson	186	186	189
Wickwar	185	185	184
Winterbourne	961	967	967
Yate	368	376	378

PARISH.	31st Dec. 1943.	31st Dec. 1944.	31st Dec. 1945.
Tetbury R.D.			
Leighterton			
Didmarton			
Long Newnton			
Shipton Moyne			
Tetbury Upton			
Weston Birt			
Mangotsfield U.D.	4,700	4.697	4,697
Kingswood U.D.	4,866	4,877	4,876
Warmley R.D.			
Bitton	749	751	752
Hanham Abbots	426	427	423
Mangotsfield Rural	170	170	169
Oldland	545	544	543
Siston	427	429	429

THIS RETURN REPRESENTS HOUSES ACTUALLY OCCUPIED AT THE DATE STATED.